

EUROPA Documentation

1. [EUROPA Documentation](#)

1. [1. Architecture](#)
2. [2. EUROPA Components](#)
3. [3. Development Tools](#)
4. [4. Miscellaneous](#)

EUROPA Documentation

This page provides in-depth documentation on understanding and using EUROPA. If you don't know where to start, or just want a quick overview of how to use EUROPA, take a look at the [EUROPA Quick Start](#). You can also find an overview of the EUROPA framework and philosophy at [Europa Background](#).

Architecture

- [Overview](#)
- Propagation Services
- Plan Database Services
- Modeling Services
- Problem Solving Services
- Ancillary Modules

EUROPA Components

- NDDL:
 - ♦ [NDDL Language Reference](#)
 - ♦ [Complete NDDL Grammar](#)
 - ♦ [NDDL Parser/Compiler](#)
- Constraints:
 - ♦ [Constraint Library Reference](#)
- Solver:
 - ♦ [Built-in Solver Description](#)
 - ♦ [Built-in Solver Configuration](#)
 - ♦ [Notes on Using Resource Search Operators](#)
 - ♦ [Building your own Solver](#)
- API
 - ♦ There are currently 2 classes that provide access to EUROPA as an engine. See this [note](#) on their differences and plans to unify them.
 - ◊ [PSEngine](#) : Client API. This interface is also available in Java (we use [SWIG](#) to do the mapping automatically).
 - ◊ [SolverAssembly](#) : Gives access to the internal interfaces for the EUROPA modules.
 - ♦ Doxygen documentation for all the EUROPA classes can be found [here](#).
- Listener
- [Extending EUROPA](#).

Development Tools

- [How to embed EUROPA in an application](#)
- [makeproject](#): Automatically create all the pieces for a new project.
- High-level visualization and debugging:
 - ♦ [PSDesktop](#): Java app to drive (and visualize) EUROPA interactively.
 - ♦ [PlanWorks](#): Java app to visualize plan details over time.
 - ◊ [PlanWorks Tutorial](#)
 - ◊ [PlanWorks.cfg Reference](#)
- Low-level debugging:
 - ♦ [Debug Output Management](#)
 - ♦ Timelines
 - ♦ The Token Network
 - ♦ The Constraint Network
 - ♦ Metric Resources
 - ♦ Common Debugging Scenarios

Miscellaneous

- [Glossary](#)
- [References](#)